

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2008; month=4; day=24; hr=15; min=8; sec=10; ms=375; ]

=====

Application No: 10091912 Version No: 2.0

Input Set:

Output Set:

Started: 2008-04-10 13:23:10.310

Finished: 2008-04-10 13:23:10.400

Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 90 ms

Total Warnings: 0

Total Errors: 0

No. of SeqIDs Defined: 3

Actual SeqID Count: 3

# SEQUENCE LISTING

<110> Bott, Richard R.  
Kellis, James T.  
Morrison, Thomas B.

<120> High Throughput Mutagenesis Screening  
Method

<130> GC724

<140> 10091912  
<141> 2002-03-05

<160> 3

<170> FastSEQ for Windows Version 4.0

<210> 1  
<211> 818  
<212> DNA  
<213> Pseudomonas mendocina

<400> 1  
tggcggcctc ttgcctgtcc gtctgtgcc a t g t c g c g g c g g g t c c c c t g c c g g a t a c a c 60  
cgggagcgcc atttcggct gtcgccatt t c g a c c g c a g t g g c c c t a c a c c a c c a g c a 120  
gccagagcga ggggcccagc t g t c g c a t c t a t c g g c c c c g c g a c c t g g g t c a g g g g g g c g 180  
tgcgtcatcc ggtgattctc t g g g g c a a t g g c a c c g g t g c c g g g c c g t c c a c t a t g c c g 240  
gcttgctatc g c a c t g g g c a a g c c a c g g t t t c g t g g t g g c g g c g g c g g a a c c t c c a a t g 300  
ccggtaccgg g c g g g a a a t g c t c g c c t g c c t g g a c t a t c t g g t a c g t a g a a c g a c a c c c 360  
cctacggcac ctattccggc a a g e t c a a t a c c g g g c g a g t c g g c a c t t c t g g g c a t t c c c 420  
agggtggtgg c g g c t c g a t c a t g g c c g g g c a g g a t a c g a g g g t g c g t a c c a c g g c g c c g a 480  
tccagcccta c a c c c t c g g c c t g g g g c a c g a c a g c g c c t c g c a g c g g c g g c a g c a g g g g c 540  
cgatgttcct gatgtccggg g g c g g t g a c a c c a t c g c c t t t c c t a c c t c a a c g c t c a g c 600  
cgggtctaccg g c g t g c c a a t g t g c c g g t g t t c t g g g g c g a a c g g c g t t a c g t c a g c c a c t 660  
tcgagccggg c g g t a g c g g t g g g g c c t a t c g c g c c c g a g c a c g g c a t g g t t c c g c t t c c 720  
agctgatgga t g a c c a a g a c g c c c g c g t a c c t t c t a c g g c g c g a g t g c a g t c t g t g c a 780  
ccagcctgct g t g g t c g g t c g a g c g c c g c g g g c t t t a a 818

<210> 2  
<211> 272  
<212> PRT  
<213> Pseudomonas mendocina

<400> 2  
Met Ala Ala Ser Cys Leu Ser Val Cys Ala Thr Val Ala Ala Ala Pro  
1 5 10 15  
Leu Pro Asp Thr Pro Gly Ala Pro Phe Pro Ala Val Ala Asn Phe Asp  
20 25 30  
Arg Ser Gly Pro Tyr Thr Thr Ser Ser Gln Ser Glu Gly Pro Ser Cys  
35 40 45  
Arg Ile Tyr Arg Pro Arg Asp Leu Gly Gln Gly Gly Val Arg His Pro  
50 55 60  
Val Ile Leu Trp Gly Asn Gly Thr Gly Ala Gly Pro Ser Thr Tyr Ala  
65 70 75 80

Gly	Leu	Leu	Ser	His	Trp	Ala	Ser	His	Gly	Phe	Val	Val	Ala	Ala	Ala	
				85					90					95		
Glu	Thr	Ser	Asn	Ala	Gly	Thr	Gly	Arg	Glu	Met	Leu	Ala	Cys	Leu	Asp	
			100					105					110			
Tyr	Leu	Val	Arg	Glu	Asn	Asp	Thr	Pro	Tyr	Gly	Thr	Tyr	Ser	Gly	Lys	
	115						120					125				
Leu	Asn	Thr	Gly	Arg	Val	Gly	Thr	Ser	Gly	His	Ser	Gln	Gly	Gly	Gly	
	130					135					140					
Gly	Ser	Ile	Met	Ala	Gly	Gln	Asp	Thr	Arg	Val	Arg	Thr	Thr	Ala	Pro	
145					150				155						160	
Ile	Gln	Pro	Tyr	Thr	Leu	Gly	Leu	Gly	His	Asp	Ser	Ala	Ser	Gln	Arg	
				165				170						175		
Arg	Gln	Gln	Gly	Pro	Met	Phe	Leu	Met	Ser	Gly	Gly	Gly	Asp	Thr	Ile	
			180					185					190			
Ala	Phe	Pro	Tyr	Leu	Asn	Ala	Gln	Pro	Val	Tyr	Arg	Arg	Ala	Asn	Val	
	195						200					205				
Pro	Val	Phe	Trp	Gly	Glu	Arg	Arg	Tyr	Val	Ser	His	Phe	Glu	Pro	Val	
	210					215					220					
Gly	Ser	Gly	Gly	Ala	Tyr	Arg	Gly	Pro	Ser	Thr	Ala	Trp	Phe	Arg	Phe	
225					230				235						240	
Gln	Leu	Met	Asp	Asp	Gln	Asp	Ala	Arg	Ala	Thr	Phe	Tyr	Gly	Ala	Gln	
			245					250					255			
Cys	Ser	Leu	Cys	Thr	Ser	Leu	Leu	Trp	Ser	Val	Glu	Arg	Arg	Gly	Leu	
		260						265					270			

<210> 3

<211> 258

<212> PRT

<213> *Pseudomonas mendocina*

<400> 3

Ala	Pro	Leu	Pro	Asp	Thr	Pro	Gly	Ala	Pro	Phe	Pro	Ala	Val	Ala	Asn	
1				5				10					15			
Phe	Asp	Arg	Ser	Gly	Pro	Tyr	Thr	Thr	Ser	Ser	Gln	Ser	Glu	Gly	Pro	
			20					25					30			
Ser	Cys	Arg	Ile	Tyr	Arg	Pro	Arg	Asp	Leu	Gly	Gln	Gly	Gly	Val	Arg	
		35					40					45				
His	Pro	Val	Ile	Leu	Trp	Gly	Asn	Gly	Thr	Gly	Ala	Gly	Pro	Ser	Thr	
	50					55					60					
Tyr	Ala	Gly	Leu	Leu	Ser	His	Trp	Ala	Ser	His	Gly	Phe	Val	Val	Ala	
65					70				75						80	
Ala	Ala	Glu	Thr	Ser	Asn	Ala	Gly	Thr	Gly	Arg	Glu	Met	Leu	Ala	Cys	
			85					90				95				
Leu	Asp	Tyr	Leu	Val	Arg	Glu	Asn	Asp	Thr	Pro	Tyr	Gly	Thr	Tyr	Ser	
		100						105				110				
Gly	Lys	Leu	Asn	Thr	Gly	Arg	Val	Gly	Thr	Ser	Gly	His	Ser	Gln	Gly	
	115						120					125				
Gly	Gly	Gly	Ser	Ile	Met	Ala	Gly	Gln	Asp	Thr	Arg	Val	Arg	Thr	Thr	
	130					135					140					
Ala	Pro	Ile	Gln	Pro	Tyr	Thr	Leu	Gly	Leu	Gly	His	Asp	Ser	Ala	Ser	
145					150				155						160	
Gln	Arg	Arg	Gln	Gln	Gly	Pro	Met	Phe	Leu	Met	Ser	Gly	Gly	Gly	Asp	
			165					170						175		
Thr	Ile	Ala	Phe	Pro	Tyr	Leu	Asn	Ala	Gln	Pro	Val	Tyr	Arg	Arg	Ala	
		180						185					190			
Asn	Val	Pro	Val	Phe	Trp	Gly	Glu	Arg	Arg	Tyr	Val	Ser	His	Phe	Glu	
	195						200					205				

Pro Val Gly Ser Gly Gly Ala Tyr Arg Gly Pro Ser Thr Ala Trp Phe  
210 215 220  
Arg Phe Gln Leu Met Asp Asp Gln Asp Ala Arg Ala Thr Phe Tyr Gly  
225 230 235 240  
Ala Gln Cys Ser Leu Cys Thr Ser Leu Leu Trp Ser Val Glu Arg Arg  
245 250 255  
Gly Leu